

THAT WHICH IS CLAIMED:

1. A method of minimizing vibration in a press roll forming a press nip only with an opposing roll, each of the rolls having a rotational axis, said method comprising:

5       applying a force to one end of a suspension arm having a medially-disposed pivot and the press roll operably engaged with the other end thereof, the force being configured to act about the pivot so as to cause the suspension arm to impart a linear load through the press roll onto a fiber web passing through the press nip, the linear load being oriented through the rotational  
10       axes of the press roll and the opposing roll; and  
      adjusting the pivot in substantially parallel relation to the linear load such that a mounting line defined by the pivot and the rotational axis of the press roll is maintained in substantially perpendicular relation to the linear load to thereby minimize vibration in the press roll.

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2. A method according to Claim 1 wherein applying a force further comprises applying a force so as to cause the suspension arm to impart a linear load of between about 0.1 kN/m and about 500 kN/m through the press roll onto the fiber web.

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3. A method according to Claim 1 wherein applying a force further comprises applying a force so as to cause the suspension arm to impart a linear load of between about 80 kN/m and about 100 kN/m through the press roll onto the fiber web.

25       4. A method according to Claim 1 wherein adjusting the pivot further comprises adjusting the pivot such that the mounting line is disposed at an angle of between about eighty-eight degrees and about ninety-two degrees with respect to the linear load.

30       5. A method according to Claim 1 wherein adjusting the pivot further comprises adjusting the pivot such that the mounting line is disposed at an angle of between about eighty-nine degrees and about ninety-one degrees with respect to the linear load.

6. A method according to Claim 1 wherein adjusting the pivot further comprises adjusting the pivot such that the mounting line is disposed at an angle of about ninety degrees with respect to the linear load.

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